Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-02-06-10 **Date: 09-02-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division,
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads and drains in Sanitary core in ward No.04 Yelahanka Upanagara.
Agency	:	Sri.Y.B Ramesh, No.34, Down Bazar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-13/W.O/133/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-18
Sample ID No	:	2018-02-06-10 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	07-02-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.65	–
2	Finess by Air permeablity method (m^2/kg,Min)	286.4	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

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Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-02-06-10 **Date: 07-03-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads and drains in Sanitary core in ward No.04 Yelahanka Upanagara.
Agency	:	Sri.Y.B Ramesh, No.34, Down Bazar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-13/W.O/133/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-18
Sample ID No	:	2018-02-06-10 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	07-02-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-02-06-10** **Date: 09-02-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads and drains in Sanitary core in ward No.04 Yelahanka Upanagara.
Agency	:	Sri.Y.B Ramesh, No.34, Down Bazar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-13/W.O/133/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	06-02-18
Sample ID No	:	2018-02-06-10 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-02-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	256	256	1.7	98.3	90-100
3	20 mm	5533	5789	38.6	61.4	30-70
4	10 mm	4665	10454	69.7	30.3	10-35
5	4.75 mm	4233	14687	97.9	2.1	0-5
6	Pan	313	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-02-06-10** **Date: 09-02-18**

Sample ID No : 2018-02-06-10 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.8	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.21	–

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-02-12-11** **Date: 14-02-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads and drains in Sanitary core in ward No.04 Yelahanka Upanagara.
Agency	:	Sri.Y.B Ramesh, No.34, Down Bazar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-13/W.O/133/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-02-18
Sample ID No	:	2018-02-12-11 /01
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012
Date of test:	:	13-02-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	546	670	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	564	685	19.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	578	691	19.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-02-12-11** **Date: 16-02-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads and drains in Sanitary core in ward No.04 Yelahanka Upanagara.
Agency	:	Sri.Y.B Ramesh, No.34, Down Bazar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-13/W.O/133/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-02-18
Sample ID No	:	2018-02-12-11 /03
Sample Type /Size	:	100mm Thick Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	12/02/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.52	1.376	4477	87.5	19.5	18.2	22.7
2	Cover Slab-2	75.52	100.51	1.392	4478	84.1	18.8	17.5	21.8
3	Cover Slab-3	75.51	100.52	1.382	4477	88.9	19.9	18.5	23.1

Note:

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-02-12-11** **Date: 16-02-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads and drains in Sanitary core in ward No.04 Yelahanka Upanagara.
Agency	:	Sri.Y.B Ramesh, No.34, Down Bazar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-13/W.O/133/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-02-18
Sample ID No	:	2018-02-12-11 /04
Sample Type /Size	:	250mm Thick Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	12/02/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.28	250.88	3.854	17734	387.5	21.9	21.9	27.3
2	Cover Slab-2	150.48	250.47	3.872	17781	384.1	21.6	21.6	27.0
3	Cover Slab-3	150.51	250.44	3.894	17788	388.9	21.9	21.9	27.3

Note:

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2018-02-12-11**	**Date: 16-02-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements of CC roads and drains in Sanitary core in ward No.04 Yelahanka Upanagara.	
Agency	:	Sri.Y.B Ramesh, No.34, Down Bazar Road, Yelahanka, Bangalore-64.	
Customer's Reference	:	EE(YNK.D)E-PMT-13/W.O/133/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	12-02-18	
Sample ID No	:	2018-02-12-11 /02	
Sample Type /Size	:	CC Kerb Stone/ 450*200*400mm	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	12/02/2018	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	150.77	200.46	3.875	17850	362.1	20.3	20.3	25.4
2	B	150.59	200.49	3.895	17807	359.2	20.2	20.2	25.2
3	C	150.62	200.88	3.475	17814	358.1	20.1	20.1	25.1

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-02-06-10** **Date: 08-02-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads and drains in Sanitary core in ward No.04 Yelahanka Upanagara.
Agency	:	Sri.Y.B Ramesh, No.34, Down Bazar Road, Yelahanka, Bangalore-64.
Customer Reference	:	EE(YNK.D)E-PMT-13/W.O/133/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-18
Sample ID No	:	2018-02-06-10 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-02-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2635	2880	57.6	42.4	25-55
4	4.75 mm	1780	4660	93.2	6.8	0-10
5	Pan	340	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-02-06-10** **Date: 08-02-18**

Sample ID No : 2018-02-06-10 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.21	–
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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